

M.Sc. (Part—I) Semester—II (CBCS Scheme)
Examination
GEOLOGY
Paper—VI
(Metamorphic Petrology)

Time—Three Hours]

[Maximum Marks—80

Note :—(1) All questions are compulsory and carry equal marks.

(2) Draw neat sketches wherever necessary.

1. Write in brief on the following :—
 - (a) Structure of metamorphic rocks.
 - (b) Kinds of metamorphism.

OR

Write in brief on the following :—

- (c) Textures of metamorphic rocks.
 - (d) Metamorphic facies.
2. Describe in detail about the nature of metamorphic reactions with suitable example.

OR

Describe the various characteristic metamorphic zones and subfacies.

3. Discuss in detail about the isoreaction grid with suitable examples.

OR

Describe in detail about the Schrienmake's rule and construction of petrogenetic grids.

4. Write in brief on the following :—
- (a) Origin of migmatites.
 - (b) Anataxis.

OR

Write in brief on the following :—

- (c) Plate tectonic related metamorphism
 - (d) Regional metamorphism.
5. Write in brief on the following :—
- (a) Polymetamorphism.
 - (b) Ocean floor metamorphism.

OR

Write in brief on the following :—

- (c) Shock metamorphism.
- (d) Pressure and time paths in metamorphism.